CPC COOPERATIVE PATENT CLASSIFICATION

F16N **LUBRICATING**

NOTE

Attention is drawn to the fo	ollowing places:

A01D 69/12	Lubrication of harvesters;
B21J 3/00	Lubricating during forging or pressing;
B25D 17/26	Lubricating of portable power-driven percussive tools;
B60R 17/00	Arrangements or adaptations of lubricating; systems or devices in vehicles;
B61C 17/08	Lubrication systems for railway locomotives;
B62D 55/092	Vehicle endless-track units with lubrication means;
D04B 35/28	Devices for lubricating knitting machine parts;
E05B 17/08	Lubricating devices for locks;
E05D 11/02	Lubricating arrangements for hinges;
E21B 10/22	Lubricating details of roller drill bits for earth; drilling.

Lubrication	devices or arrangements for oil or grease	7/28	Dip lubrication
1/00	Constructional modifications of parts of machines	7/30	• the oil being fed or carried along by another fluid (in internal- combustion engines F02F)
	or apparatus for the purpose of lubrication	7/32	• Mist lubrication (splash lubrication <u>F16N 7/26</u>)
3/00	Devices for supplying lubricant by manual action (draining equipment for liquid containers <u>B65D</u>)	7/34	• • • Atomising devices for oil (atomising devices in general <u>B05B</u>)
3/02	• delivering oil	7/36	• with feed by pumping action of the member to be
3/04	. Oil cans; Oil syringes		lubricated or of a shaft of the machine; Centrifugal
3/06	delivering on squeezing		lubrication
3/08	incorporating a piston-pump	7/363	• • {Centrifugal lubrication}
3/10	• delivering grease	7/366	• • {with feed by pumping action of a vertical shaft
3/12	Grease guns		of the machine}
	-	7/38	 with a separate pump; Central lubrication systems
5/00	Apparatus with hand-positioned nozzle supplied	7/385	• • {Central lubrication systems}
	with lubricant under pressure (F16N 3/00 takes precedence)	7/40	in a closed circulation system
5/02	. Nozzles or nozzle-valve arrangements therefor, e.g.	9/00	Arrangements for supplying oil or unspecified
	high-pressure grease guns		lubricant from a moving reservoir or the
7/00	Arrangements for supplying oil or unspecified		equivalent (also usable with a stationary reservoir
7700	lubricant from a stationary reservoir or the	0.402	<u>F16N 7/00</u>)
	equivalent in or on the machine or member to be	9/02	• with reservoir on or in a rotary member
	lubricated (axle-box lubrication for railway rolling-	9/04	with reservoir on or in a reciprocating, rocking, or
	stock <u>B61F 17/00</u>)		swinging member
7/02	with gravity feed or drip lubrication	11/00	Arrangements for supplying grease from a
7/04	with oil flow promoted by vibration		stationary reservoir or the equivalent in or on the
7/06	 Arrangements in which the droplets are visible 		machine or member to be lubricated; Grease cups
7/06 7/08	 Arrangements in which the droplets are visible controlled by means of the temperature of the 	11/02	Hand-actuated grease cups, e.g. Stauffer cups
	-	11/02 11/04	
	controlled by means of the temperature of the		Hand-actuated grease cups, e.g. Stauffer cups
7/08	• controlled by means of the temperature of the member to be lubricated (thermostats <u>G05D</u>)	11/04	 Hand-actuated grease cups, e.g. Stauffer cups Spring-loaded devices Weight-loaded devices with mechanical drive, other than directly by
7/08	 controlled by means of the temperature of the member to be lubricated (thermostats G05D) incorporating manually-operated control means, e.g. spindles with feed by capillary action, e.g. by wicks 	11/04 11/06 11/08	 Hand-actuated grease cups, e.g. Stauffer cups Spring-loaded devices Weight-loaded devices with mechanical drive, other than directly by springs or weights (lubricating-pumps F16N 13/00)
7/08 7/10	 controlled by means of the temperature of the member to be lubricated (thermostats G05D) incorporating manually-operated control means, e.g. spindles 	11/04 11/06 11/08	 Hand-actuated grease cups, e.g. Stauffer cups Spring-loaded devices Weight-loaded devices with mechanical drive, other than directly by springs or weights (lubricating-pumps F16N 13/00) by pressure of another fluid
7/08 7/10 7/12	 controlled by means of the temperature of the member to be lubricated (thermostats G05D) incorporating manually-operated control means, e.g. spindles with feed by capillary action, e.g. by wicks the lubricant being conveyed from the reservoir by mechanical means (by pumping devices F16N 7/36, 	11/04 11/06 11/08	 Hand-actuated grease cups, e.g. Stauffer cups Spring-loaded devices Weight-loaded devices with mechanical drive, other than directly by springs or weights (lubricating-pumps F16N 13/00)
7/08 7/10 7/12	 controlled by means of the temperature of the member to be lubricated (thermostats G05D) incorporating manually-operated control means, e.g. spindles with feed by capillary action, e.g. by wicks the lubricant being conveyed from the reservoir by mechanical means (by pumping devices F16N 7/36, F16N 7/38; adaptations for lubrication of machines or engines in general, of internal-combustion 	11/04 11/06 11/08	 Hand-actuated grease cups, e.g. Stauffer cups Spring-loaded devices Weight-loaded devices with mechanical drive, other than directly by springs or weights (lubricating-pumps F16N 13/00) by pressure of another fluid by centrifugal action Lubricating-pumps (oil cans with pump F16N 3/08;
7/08 7/10 7/12 7/14	 controlled by means of the temperature of the member to be lubricated (thermostats G05D) incorporating manually-operated control means, e.g. spindles with feed by capillary action, e.g. by wicks the lubricant being conveyed from the reservoir by mechanical means (by pumping devices F16N 7/36, F16N 7/38; adaptations for lubrication of machines or engines in general, of internal-combustion engines F01M) 	11/04 11/06 11/08 11/10 11/12 13/00	 Hand-actuated grease cups, e.g. Stauffer cups Spring-loaded devices Weight-loaded devices with mechanical drive, other than directly by springs or weights (lubricating-pumps F16N 13/00) by pressure of another fluid by centrifugal action Lubricating-pumps (oil cans with pump F16N 3/08; pumps for liquids in general F04)
7/08 7/10 7/12	 controlled by means of the temperature of the member to be lubricated (thermostats G05D) incorporating manually-operated control means, e.g. spindles with feed by capillary action, e.g. by wicks the lubricant being conveyed from the reservoir by mechanical means (by pumping devices F16N 7/36, F16N 7/38; adaptations for lubrication of machines or engines in general, of internal-combustion engines F01M) the oil being carried up by a lifting device (scoop 	11/04 11/06 11/08 11/10 11/12	 Hand-actuated grease cups, e.g. Stauffer cups Spring-loaded devices Weight-loaded devices with mechanical drive, other than directly by springs or weights (lubricating-pumps F16N 13/00) by pressure of another fluid by centrifugal action Lubricating-pumps (oil cans with pump F16N 3/08; pumps for liquids in general F04) {Flexible-wall pumps}
7/08 7/10 7/12 7/14	 controlled by means of the temperature of the member to be lubricated (thermostats G05D) incorporating manually-operated control means, e.g. spindles with feed by capillary action, e.g. by wicks the lubricant being conveyed from the reservoir by mechanical means (by pumping devices F16N 7/36, F16N 7/38; adaptations for lubrication of machines or engines in general, of internal-combustion engines F01M) the oil being carried up by a lifting device (scoop devices in general F04D) 	11/04 11/06 11/08 11/10 11/12 13/00 2013/003 2013/006	 Hand-actuated grease cups, e.g. Stauffer cups Spring-loaded devices Weight-loaded devices with mechanical drive, other than directly by springs or weights (lubricating-pumps F16N 13/00) by pressure of another fluid by centrifugal action Lubricating-pumps (oil cans with pump F16N 3/08; pumps for liquids in general F04) {Flexible-wall pumps} {Jet pumps}
7/08 7/10 7/12 7/14 7/16 7/18	 controlled by means of the temperature of the member to be lubricated (thermostats G05D) incorporating manually-operated control means, e.g. spindles with feed by capillary action, e.g. by wicks the lubricant being conveyed from the reservoir by mechanical means (by pumping devices F16N 7/36, F16N 7/38; adaptations for lubrication of machines or engines in general, of internal-combustion engines F01M) the oil being carried up by a lifting device (scoop devices in general F04D) with one or more feed members fixed on a shaft 	11/04 11/06 11/08 11/10 11/12 13/00 2013/003	 Hand-actuated grease cups, e.g. Stauffer cups Spring-loaded devices Weight-loaded devices with mechanical drive, other than directly by springs or weights (lubricating-pumps F16N 13/00) by pressure of another fluid by centrifugal action Lubricating-pumps (oil cans with pump F16N 3/08; pumps for liquids in general F04) {Flexible-wall pumps} {Jet pumps} with reciprocating piston (pumps with distributing
7/08 7/10 7/12 7/14	 controlled by means of the temperature of the member to be lubricated (thermostats G05D) incorporating manually-operated control means, e.g. spindles with feed by capillary action, e.g. by wicks the lubricant being conveyed from the reservoir by mechanical means (by pumping devices F16N 7/36, F16N 7/38; adaptations for lubrication of machines or engines in general, of internal-combustion engines F01M) the oil being carried up by a lifting device (scoop devices in general F04D) with one or more feed members fixed on a shaft with one or more members moving around the 	11/04 11/06 11/08 11/10 11/12 13/00 2013/003 2013/006	 Hand-actuated grease cups, e.g. Stauffer cups Spring-loaded devices Weight-loaded devices with mechanical drive, other than directly by springs or weights (lubricating-pumps F16N 13/00) by pressure of another fluid by centrifugal action Lubricating-pumps (oil cans with pump F16N 3/08; pumps for liquids in general F04) {Flexible-wall pumps} {Jet pumps}
7/08 7/10 7/12 7/14 7/16 7/18 7/20	 controlled by means of the temperature of the member to be lubricated (thermostats G05D) incorporating manually-operated control means, e.g. spindles with feed by capillary action, e.g. by wicks the lubricant being conveyed from the reservoir by mechanical means (by pumping devices F16N 7/36, F16N 7/38; adaptations for lubrication of machines or engines in general, of internal-combustion engines F01M) the oil being carried up by a lifting device (scoop devices in general F04D) with one or more feed members fixed on a shaft with one or more members moving around the shaft to be lubricated 	11/04 11/06 11/08 11/10 11/12 13/00 2013/003 2013/006 13/02	 Hand-actuated grease cups, e.g. Stauffer cups Spring-loaded devices Weight-loaded devices with mechanical drive, other than directly by springs or weights (lubricating-pumps F16N 13/00) by pressure of another fluid by centrifugal action Lubricating-pumps (oil cans with pump F16N 3/08; pumps for liquids in general F04) {Flexible-wall pumps} {Jet pumps} with reciprocating piston (pumps with distributing equipment F16N 13/22)
7/08 7/10 7/12 7/14 7/16 7/18 7/20 7/22	 controlled by means of the temperature of the member to be lubricated (thermostats G05D) incorporating manually-operated control means, e.g. spindles with feed by capillary action, e.g. by wicks the lubricant being conveyed from the reservoir by mechanical means (by pumping devices F16N 7/36, F16N 7/38; adaptations for lubrication of machines or engines in general, of internal-combustion engines F01M) the oil being carried up by a lifting device (scoop devices in general F04D) with one or more feed members fixed on a shaft with one or more members moving around the shaft to be lubricated shaped as rings 	11/04 11/06 11/08 11/10 11/12 13/00 2013/003 2013/006 13/02	 Hand-actuated grease cups, e.g. Stauffer cups Spring-loaded devices Weight-loaded devices with mechanical drive, other than directly by springs or weights (lubricating-pumps F16N 13/00) by pressure of another fluid by centrifugal action Lubricating-pumps (oil cans with pump F16N 3/08; pumps for liquids in general F04) {Flexible-wall pumps} {Jet pumps} with reciprocating piston (pumps with distributing equipment F16N 13/22) Adjustable reciprocating pumps
7/08 7/10 7/12 7/14 7/16 7/18 7/20	 controlled by means of the temperature of the member to be lubricated (thermostats G05D) incorporating manually-operated control means, e.g. spindles with feed by capillary action, e.g. by wicks the lubricant being conveyed from the reservoir by mechanical means (by pumping devices F16N 7/36, F16N 7/38; adaptations for lubrication of machines or engines in general, of internal-combustion engines F01M) the oil being carried up by a lifting device (scoop devices in general F04D) with one or more feed members fixed on a shaft with one or more members moving around the shaft to be lubricated 	11/04 11/06 11/08 11/10 11/12 13/00 2013/003 2013/006 13/02 13/04 13/06	 Hand-actuated grease cups, e.g. Stauffer cups Spring-loaded devices Weight-loaded devices with mechanical drive, other than directly by springs or weights (lubricating-pumps F16N 13/00) by pressure of another fluid by centrifugal action Lubricating-pumps (oil cans with pump F16N 3/08; pumps for liquids in general F04) {Flexible-wall pumps} {Jet pumps} with reciprocating piston (pumps with distributing equipment F16N 13/22) Adjustable reciprocating pumps Actuation of lubricating-pumps

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25/02

25/04

27/00

. with reciprocating distributing slide valve

Proportioning devices (liquid meters <u>G01F</u>)

pump <u>F16N 13/22</u>)

• with rotary distributing member (combined with oil

Labrication	ievices of arrangements for on or grease		1101
10/10	M. J. J. J. J. G. G. G. G. J.	27/005	
13/10	• • with mechanical drive (F16N 13/18 takes	27/005	• {using restrictions}
12/12	precedence)	27/02	• Gating equipment (multiple-way valves <u>F16K</u> ;
13/12 13/14	with ratchet		metering cocks <u>G01F</u>)
13/14	• • • • with cam or wobble-plate on shaft parallel to the pump cylinder or cylinders	29/00	Special means in lubricating arrangements or
13/16	with fluid drive		systems providing for the indication or detection of
13/18	relative movement of pump parts being		undesired conditions; Use of devices responsive to
13/10	produced by inertia of one of the parts or of a		conditions in lubricating arrangements or systems
	driving member		(in bearings <u>F16C</u> ; constructions of apparatus outside the lubricating arrangements or systems, <u>see</u> the
13/20	Rotary pumps (with distributing equipment		relevant classes)
	<u>F16N 13/22</u>)	29/02	• for influencing the supply of lubricant
2013/205	• • {Screw pumps}	29/04	 enabling a warning to be given; enabling moving
13/22	 with distributing equipment (separate distributing 		parts to be stopped
	equipment <u>F16N 25/00</u>)	21/00	
15/00	Lubrication with substances other than oil or	31/00	Means for collecting, retaining, or draining-off
	grease; Lubrication characterised by the use of		lubricant in or on machines or apparatus (oil separators for separating oil from exhaust steam
	particular lubricants in particular apparatus or		F22G)
	conditions (<u>F16N 17/00</u> takes precedence; lubricating	31/002	• {Drain pans}
	compositions, selection of particular substances as	31/004	• {combined with container}
	lubricants in general <u>C10M</u> ; bearings with surfaces	31/006	• {Drip trays}
	incorporating lubricant <u>F16C 33/04</u> ; lubrication specially adapted to machines or apparatus provided	2031/008	• {Drain plugs}
	for in a single other class, see the relevant class for the	31/02	• Oil catchers; Oil wipers (oil-scraping rings for
	machine or apparatus)		pistons F16J 9/20; {cleaning means for indicating
15/02	• with graphite or graphite-containing compositions		or measuring dip members, e.g. dipstick wipers
15/04	• with water (bearings working in water <u>F16C</u>)	2021/025	<u>G01F 23/045</u> })
17/00	I ubrication of machines or apparetus working	2031/025	{Oil-slinger}
17/00	Lubrication of machines or apparatus working under extreme conditions (additives to lubricating	33/00	Mechanical arrangements for cleaning lubricating
	oil or lubricating grease <u>C10M</u>)		equipment; Special racks or the like for use in
17/02	• at high temperature (of turbines <u>F01D</u> , <u>F02C</u> ;		draining lubricant from machine parts
	lubrication of machines or engines in general, of	2033/005	• {Flushing}
	internal-combustion engines <u>F01M</u>)	Care of lubr	icants
17/04	• at low temperature (lubrication of refrigerating	_	
17/06	machines <u>F25B</u>) in vacuum or under reduced pressure (lubrication of	35/00	Storage of lubricants in engine-rooms or the like
17/06	evacuating pumps <u>F04</u> ; of rotary anodes of X-ray		(storage containers <u>B65</u>)
	tubes H01J 35/10)	25/00	
		37/00	Equipment for transferring lubricant from one
Details of hul			container to another
Details of fu	bricators or lubrication systems	37/003	<pre>container to another . {for filling bearings}</pre>
	•	37/003 2037/006	container to another. {for filling bearings}. {Filling}
19/00	Lubricant containers for use in lubricators or	37/003	<pre>container to another . {for filling bearings}</pre>
	•	37/003 2037/006	container to another. {for filling bearings}. {Filling}
19/00	Lubricant containers for use in lubricators or lubrication systems	37/003 2037/006 37/02	 container to another . {for filling bearings} . {Filling} . for filling grease guns Arrangements for conditioning of lubricants in the lubricating system (cleaning of lubricating oil,
19/00	Lubricant containers for use in lubricators or lubrication systems • {Indicating oil level (measuring liquid level in general G01F)} • {Maintaining oil level (level control in general	37/003 2037/006 37/02 39/00	 container to another {for filling bearings} {Filling} for filling grease guns Arrangements for conditioning of lubricants in the lubricating system (cleaning of lubricating oil, lubricating compositions C10M)
19/00 19/003	Lubricant containers for use in lubricators or lubrication systems • {Indicating oil level (measuring liquid level in general G01F)}	37/003 2037/006 37/02	 container to another . {for filling bearings} . {Filling} . for filling grease guns Arrangements for conditioning of lubricants in the lubricating system (cleaning of lubricating oil, lubricating compositions C10M) . {by deaeration (degasification of liquids
19/00 19/003 19/006	Lubricant containers for use in lubricators or lubrication systems • {Indicating oil level (measuring liquid level in general G01F)} • {Maintaining oil level (level control in general G05D 9/00)}	37/003 2037/006 37/02 39/00	 container to another {for filling bearings} {Filling} for filling grease guns Arrangements for conditioning of lubricants in the lubricating system (cleaning of lubricating oil, lubricating compositions C10M) {by deaeration (degasification of liquids B01D 19/00)}
19/00 19/003	Lubricant containers for use in lubricators or lubrication systems • {Indicating oil level (measuring liquid level in general G01F)} • {Maintaining oil level (level control in general	37/003 2037/006 37/02 39/00	 container to another {for filling bearings} {Filling} for filling grease guns Arrangements for conditioning of lubricants in the lubricating system (cleaning of lubricating oil, lubricating compositions C10M) {by deaeration (degasification of liquids B01D 19/00)} {by evaporating or purifying (for heating or cooling
19/00 19/003 19/006	Lubricant containers for use in lubricators or lubrication systems • {Indicating oil level (measuring liquid level in general G01F)} • {Maintaining oil level (level control in general G05D 9/00)} Conduits; Junctions (in general F16L); Fittings for	37/003 2037/006 37/02 39/00	 container to another {for filling bearings} {Filling} for filling grease guns Arrangements for conditioning of lubricants in the lubricating system (cleaning of lubricating oil, lubricating compositions C10M) {by deaeration (degasification of liquids B01D 19/00)} {by evaporating or purifying (for heating or cooling of filters B01D 35/18, e.g. comprising a vaporising
19/00 19/003 19/006 21/00	Lubricant containers for use in lubricators or lubrication systems • {Indicating oil level (measuring liquid level in general G01F)} • {Maintaining oil level (level control in general G05D 9/00)} Conduits; Junctions (in general F16L); Fittings for lubrication apertures	37/003 2037/006 37/02 39/00	 container to another {for filling bearings} {Filling} for filling grease guns Arrangements for conditioning of lubricants in the lubricating system (cleaning of lubricating oil, lubricating compositions C10M) {by deaeration (degasification of liquids B01D 19/00)} {by evaporating or purifying (for heating or cooling of filters B01D 35/18, e.g. comprising a vaporising unit B01D 35/185)}
19/00 19/003 19/006 21/00 2021/005	Lubricant containers for use in lubricators or lubrication systems • {Indicating oil level (measuring liquid level in general G01F)} • {Maintaining oil level (level control in general G05D 9/00)} Conduits; Junctions (in general F16L); Fittings for lubrication apertures • {Modulair units} • Lubricating nipples • Nozzles for connection of lubricating equipment to	37/003 2037/006 37/02 39/00 39/002 39/005	 container to another {for filling bearings} {Filling} for filling grease guns Arrangements for conditioning of lubricants in the lubricating system (cleaning of lubricating oil, lubricating compositions C10M) {by deaeration (degasification of liquids B01D 19/00)} {by evaporating or purifying (for heating or cooling of filters B01D 35/18, e.g. comprising a vaporising unit B01D 35/185)} {Using strainers}
19/00 19/003 19/006 21/00 2021/005 21/02 21/04	Lubricant containers for use in lubricators or lubrication systems • {Indicating oil level (measuring liquid level in general G01F)} • {Maintaining oil level (level control in general G05D 9/00)} Conduits; Junctions (in general F16L); Fittings for lubrication apertures • {Modulair units} • Lubricating nipples • Nozzles for connection of lubricating equipment to nipples	37/003 2037/006 37/02 39/00 39/002 39/005	 container to another {for filling bearings} {Filling} for filling grease guns Arrangements for conditioning of lubricants in the lubricating system (cleaning of lubricating oil, lubricating compositions C10M) {by deaeration (degasification of liquids B01D 19/00)} {by evaporating or purifying (for heating or cooling of filters B01D 35/18, e.g. comprising a vaporising unit B01D 35/185)}
19/00 19/003 19/006 21/00 2021/005 21/02	Lubricant containers for use in lubricators or lubrication systems • {Indicating oil level (measuring liquid level in general G01F)} • {Maintaining oil level (level control in general G05D 9/00)} Conduits; Junctions (in general F16L); Fittings for lubrication apertures • {Modulair units} • Lubricating nipples • Nozzles for connection of lubricating equipment to	37/003 2037/006 37/02 39/00 39/002 39/005 2039/007 39/02	 container to another {for filling bearings} {Filling} for filling grease guns Arrangements for conditioning of lubricants in the lubricating system (cleaning of lubricating oil, lubricating compositions C10M) {by deaeration (degasification of liquids B01D 19/00)} {by evaporating or purifying (for heating or cooling of filters B01D 35/18, e.g. comprising a vaporising unit B01D 35/185)} {Using strainers} by cooling (heat-exchangers in general F28)
19/00 19/003 19/006 21/00 2021/005 21/02 21/04	Lubricant containers for use in lubricators or lubrication systems • {Indicating oil level (measuring liquid level in general G01F)} • {Maintaining oil level (level control in general G05D 9/00)} Conduits; Junctions (in general F16L); Fittings for lubrication apertures • {Modulair units} • Lubricating nipples • Nozzles for connection of lubricating equipment to nipples • Covering members for nipples, conduits or apertures	37/003 2037/006 37/02 39/00 39/002 39/005 2039/007 39/02 39/04	 container to another {for filling bearings} {Filling} for filling grease guns Arrangements for conditioning of lubricants in the lubricating system (cleaning of lubricating oil, lubricating compositions C10M) {by deaeration (degasification of liquids B01D 19/00)} {by evaporating or purifying (for heating or cooling of filters B01D 35/18, e.g. comprising a vaporising unit B01D 35/185)} {Using strainers} by cooling (heat-exchangers in general F28) by heating (heat-exchangers in general F28) by filtration (filters in general B01D; magnetic separators B03C 1/00; {centrifugal separators or
19/00 19/003 19/006 21/00 2021/005 21/02 21/04 21/06	Lubricant containers for use in lubricators or lubrication systems • {Indicating oil level (measuring liquid level in general G01F)} • {Maintaining oil level (level control in general G05D 9/00)} Conduits; Junctions (in general F16L); Fittings for lubrication apertures • {Modulair units} • Lubricating nipples • Nozzles for connection of lubricating equipment to nipples	37/003 2037/006 37/02 39/00 39/002 39/005 2039/007 39/02 39/04 39/06	 container to another {for filling bearings} {Filling} for filling grease guns Arrangements for conditioning of lubricants in the lubricating system (cleaning of lubricating oil, lubricating compositions C10M) {by deaeration (degasification of liquids B01D 19/00)} {by evaporating or purifying (for heating or cooling of filters B01D 35/18, e.g. comprising a vaporising unit B01D 35/185)} {Using strainers} by cooling (heat-exchangers in general F28) by heating (heat-exchangers in general F28) by filtration (filters in general B01D; magnetic separators B03C 1/00; {centrifugal separators or filters B04B 5/005})
19/00 19/003 19/006 21/00 2021/005 21/02 21/04 21/06 23/00	Lubricant containers for use in lubricators or lubrication systems • {Indicating oil level (measuring liquid level in general G01F)} • {Maintaining oil level (level control in general G05D 9/00)} Conduits; Junctions (in general F16L); Fittings for lubrication apertures • {Modulair units} • Lubricating nipples • Nozzles for connection of lubricating equipment to nipples • Covering members for nipples, conduits or apertures Special adaptations of check valves (check valves in general F16K)	37/003 2037/006 37/02 39/00 39/002 39/005 2039/007 39/02 39/04 39/06	 container to another {for filling bearings} {Filling} for filling grease guns Arrangements for conditioning of lubricants in the lubricating system (cleaning of lubricating oil, lubricating compositions C10M) {by deaeration (degasification of liquids B01D 19/00)} {by evaporating or purifying (for heating or cooling of filters B01D 35/18, e.g. comprising a vaporising unit B01D 35/185)} {Using strainers} by cooling (heat-exchangers in general F28) by heating (heat-exchangers in general F28) by filtration (filters in general B01D; magnetic separators B03C 1/00; {centrifugal separators or filters B04B 5/005}) {inlet foot filter}
19/00 19/003 19/006 21/00 2021/005 21/02 21/04 21/06	Lubricant containers for use in lubricators or lubrication systems • {Indicating oil level (measuring liquid level in general G01F)} • {Maintaining oil level (level control in general G05D 9/00)} Conduits; Junctions (in general F16L); Fittings for lubrication apertures • {Modulair units} • Lubricating nipples • Nozzles for connection of lubricating equipment to nipples • Covering members for nipples, conduits or apertures Special adaptations of check valves (check valves in	37/003 2037/006 37/02 39/00 39/002 39/005 2039/007 39/02 39/04 39/06	 container to another {for filling bearings} {Filling} for filling grease guns Arrangements for conditioning of lubricants in the lubricating system (cleaning of lubricating oil, lubricating compositions C10M) {by deaeration (degasification of liquids B01D 19/00)} {by evaporating or purifying (for heating or cooling of filters B01D 35/18, e.g. comprising a vaporising unit B01D 35/185)} {Using strainers} by cooling (heat-exchangers in general F28) by heating (heat-exchangers in general F28) by filtration (filters in general B01D; magnetic separators B03C 1/00; {centrifugal separators or filters B04B 5/005})

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99/00

combustion engines <u>F01M</u>)

this subclass

Subject matter not provided for in other groups of

2

2250/11 . Ambient temperature2250/16 . Number of revolutions, RPM

2250/34 . Transparency; Light; Photo sensor

2250/38 . Level 2250/30 . Dialectricum 2250/32 . Inductive

2250/36 • Viscosity

		2250/38	• Piezo; x-tal
		2250/40	• Flow
2200/00	Condition of lubricant	2250/42	• Friction
2200/02	• Oxidation	2250/50	• Sampling
2200/04	• Detecting debris, chips, swarfs	2250/52	magnetic
2200/06	Film thickness		
2200/08	. Acidity, pH-value	2260/00	Fail safe
2200/10	. Temperature	2260/02	. Indicating
2200/12	. Viscosity	2260/04	Oil level
2200/14	Treating with electricity	2260/05	Oil flow
2200/16	• using tracers	2260/06	Temperature
2200/18	. Detecting foaming	2260/065	by means of colours or dye
2200/20	Detecting water	2260/08	Pressure
		2260/12	using warning lamps
Care of lubri	<u>cants</u>	2260/14	using sound
2210/00	Applications	2260/16	using recording
2210/02	Turbines	2260/18	necessity of changing oil
2210/025	. Wind Turbines	2260/20	. Emergency
2210/04	. Vehicles	2260/21	limping home
2210/04	Marine	2260/22	Rupture
2210/08	Aircraft	2260/24	using accumulator
2210/08	for inverted flight	2260/30	Clogging filter
2210/09	Refrigerators	2260/32	Pump failure
2210/10	Gearings	2260/40	• Pre-lubrication
2210/12	Bearings	2260/50	After-lubrication
2210/14	Pumps	2260/60	Limping home
2210/18	Electric motors	2270/00	Controlling
2210/18		2270/00	Controlling Level
	Electric generators		
2210/22	Centrifuges	2270/12	• using overflow (F16N 2270/18 takes precedence)
2210/24	Conveyors	2270/14	using float device
2210/26	Spinning spindles submerged	2270/18	using overflow by filling Amount of lubricant
2210/28	5	2270/20	with restrictions
2210/30 2210/32	• for reversed rotation	2270/22 2270/24	
	Sewing machines Chains	2270/24	using porous, felt, ceramic, or sintered materialvariable
2210/33	. Chains		
2210/34	Cables and wires	2270/30 2270/32	intermittent
2230/00	Signal processing		Fixed pulse, fixed length, fixed amplitude
2230/02	Microprocessor; Microcomputer	2270/48	pressure-controlled
2230/06	 using mapping techniques 	2270/50	. Condition
2230/10	Timing network	2270/52	. Viscosity
2230/12	with pneumatic elements	2270/54	. pH; Acidity
2230/13	with hydraulic elements	2270/56	Temperature
2230/14	with bimetallic elements	2270/60	• Pressure
2230/16	with capacitors	2270/62	Limit
2230/18	. Switches	2270/64	. Set-pressure
2230/19	Photo sensor	2270/70	. Supply
2230/20	Reed relays	2270/72	• • on-off
2230/22	using counters	2270/74	only during use
		2280/00	Valves
2250/00	Measuring	2280/02	electromagnetically operated
2250/04	• Pressure	2280/04	Variable-flow or proportional valves
2250/05	Atmospheric pressure		1 1
2250/06	for determining flow		
2250/08	. Temperature		
2250/11	A 1		

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